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thioalkyl, thioaryl,— $SO_2R^1$ , — $SO_2OR^1$ , F, Cl, Br, and I;  $R^1$  and  $R^2$  can be the same or different, and each is selected from the group consisting of hydrogen,  $C_1$ - $C_{10}$  alkyl,  $C_1$ - $C_{10}$  heteroalkyl, aryl, heteroaryl, hydroxy, F, Cl, Br, and I, and m = 0-2.

- 5 123. The article of claim 122, wherein the structure comprises a 1-, 2- or 3- dimensional array of n monomer units.
  - 124. The article of claim 122, wherein the four A units comprise a macrocycle.
- 10 125. The article of claim 124, wherein the macrocycle is selected from the group consisting of cyclams, phthalocyanines and porphyrins.
  - 126. The article of claim 124, wherein the metal ion is a transition metal ion.

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